

Quizz #4: Rails

Q1 - How do you create a Rails app?

Q2 - How do you start coding a Rails project?

1. Coding the views?
 2. Coding the controllers?
 3. Coding the models?
-

Q3 - How do you generate a `Song` model with a `title` and a `year`?

*Tell us the 2 files created and the **rake** command you should type then.*

Q4 - How do you add a `category` (ex: `"rock"`, `"electro"`, etc..) to your model using the correct Rails generator?

*Again, what is the file created and the **rake** command you need to type again?*

Q5 - Add a validation on the presence of a song title & crash-test your model in the console

```
# models/song.rb
class Song < ActiveRecord::Base
  # Add the validation

end
```

Now crash-test your model:

```
$ rails c  
>  
>  
>  
>  
>  
>  
>  
>
```

Q6 - What is the Rails flow you need to follow again and again? Give the correct order

1. The Router is routing the HTTP request to "controller#action"
2. The action is getting data from models
3. Everything starts with an HTTP Request
4. The action is rendering the view

Q7 - What are the **4 different parts** inside a HTTP request?

1.
2.
3.
4.

Q8 - Are these 2 routes the same? Why?

```
# config/routes.rb  
get "/songs" => "songs#show"  
post "/songs" => "songs#create"
```

Q9 - What's the difference between a **GET** and a **POST** request?

Q10 - Complete the controller code using the correct `params` key?

HTTP request:

```
GET /search?query=thriller
```

Routing:

```
# config/routes.rb  
get "/seach" => "songs#search"
```

Controller:

```
class SongsController < ApplicationController  
  
  def search  
    # TODO  
    @song =  
  end  
  
end
```

Q11 - Complete the controller code using the correct `params` key?

HTTP request:

```
GET /songs/named/thriller
```

Routing:

```
# config/routes.rb  
get "/songs/named/:name" => "songs#search"
```

Controller:

```
class SongsController < ApplicationController  
  
  def search  
    # TODO  
    @song =  
  end  
  
end
```

resources

```
# config/routes.rb
# TODO: Give us the details of the 7 routes generated
resources :songs
```

Q13 - How do you print your routes and their URL prefix helpers?

\$

Q14 - How do you generate a controller for your songs?

\$

Q15 - Implement the **Read** actions in your songs controller?

```
class SongsController < ApplicationController
```

songs#new

```
class SongsController < ApplicationController
  def new

  end

  def create

  end

  private

  def song_params

  end
end
```

Q17 - Why do we have to filter parameters using "strong params" in the controller?

Q18 - **Hard question:** What is the HTML generated?

Imagine that:

```
@restaurant = Song.new
```

Now what is the HTML code generated by:

```
<%= form_for @song do |f| %>
  <%= f.text_field :title %>
  <%= f.submit %>
<% end %>
```

Fill the blanks:

```
<form action="                " method="post">
  <input type="text" name="                " value="                ">
  <input type="submit" value="Create song">
</form>
```

Q19 - **Hard question:** What is the HTML generated?

Imagine that:

```
@restaurant # => <#Song: id: 18, title: "Hey jude", year: 1968, category: "rock">
```

Now what is the HTML code generated by:

```
<%= form_for @song do |f| %>
  <%= f.text_field :title %>
  <%= f.submit %>
<% end %>
```

Fill the blanks:

```
<form action="                " method="patch">
  <input type="text" name="                " value="                ">
  <input type="submit" value="Create song">
</form>
```

Adding a 2nd model

Q20 - Now you want to add reviews to your app. Here are some constraints

- We don't want our visitors to destroy or update reviews, just to create ones.
- We don't want a separate index page to list all reviews or a show page to display each review. Instead, we want to display reviews on the show page of each song, for better UX.

Step #1: Model

Generate your `Review` model in the terminal. It should have only a `content:string` and a `song:references` (= the foreign key).

```
$
```

Run the migration

```
$
```

Add validation/associations

- Add a validation for the presence of a content
- Add associations between `Review` and `Song`

```
class Song < ActiveRecord::Base

end

class Review < ActiveRecord::Base

end
```

Step #2: Routing/Controller

Generate the reviews controller

```
$
```

Add the **necessary** routes (don't forget **we don't want the 7 CRUD actions for reviews**)

```
# config/routes.rb
resources :songs do
  # TODO

end
```

Now code your controller:

```
class ReviewsController < ApplicationController
  before_action :set_song

  def new

  end

  def create


  end

  private
  def set_song
    @song = Song.find(params[:song_id])
  end
  def review_params
    params.require(:song).permit(:content)
  end
end
```

Step #3: Views

Add a song's reviews on its show page:

```
<h1><%= @song.title %></h1>
<p><%= @song.year %></p>
<p><%= @song.category %></p>

<h2>Here are the reviews for this song;</h2>
```